FIG. 1

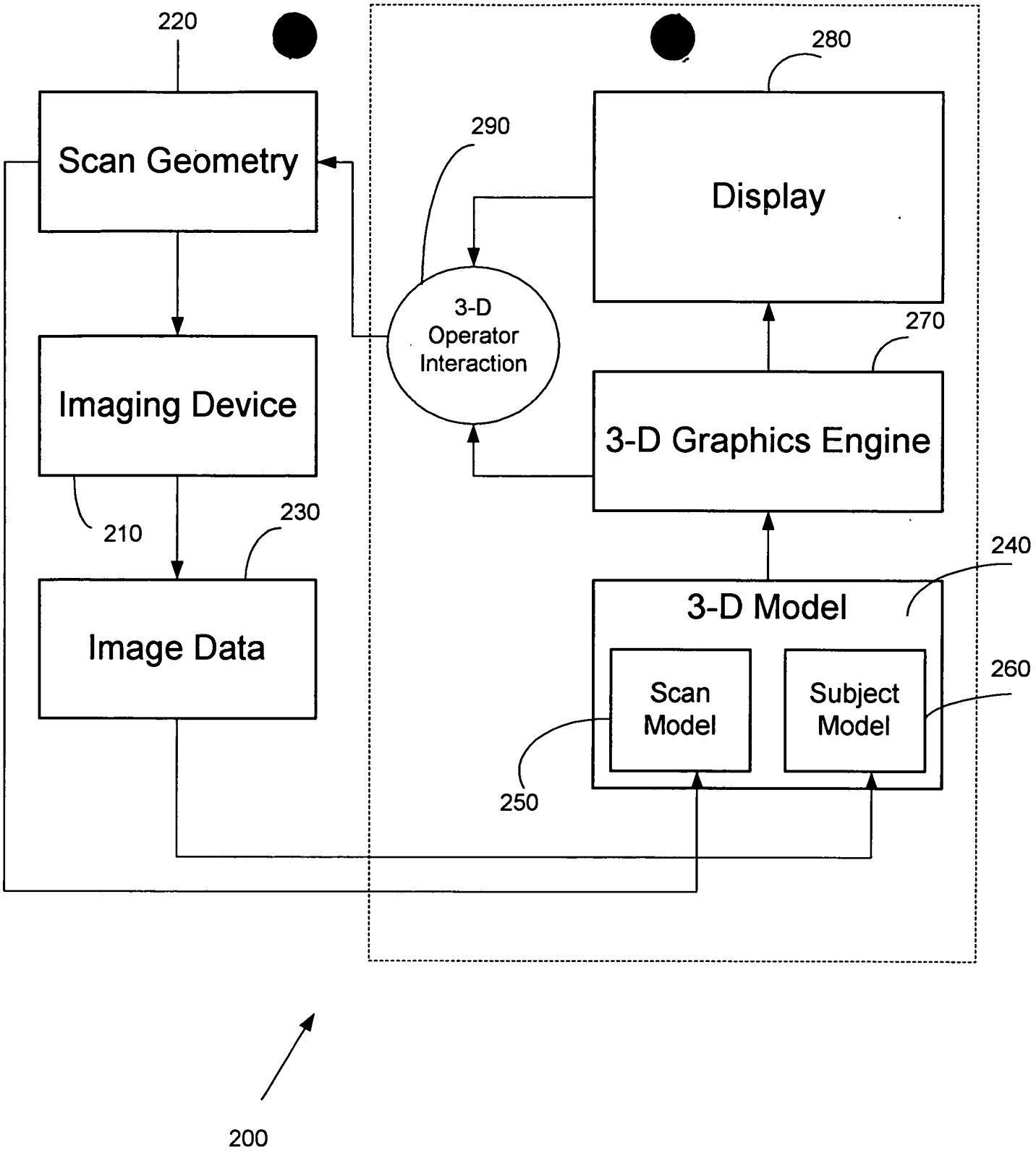

220
Scan Geometry
Imaging Device
210
230
Image Data
290
3-D
Operator
Interaction
280
Display
270
3-D Graphics Engine
240
3-D Model
Scan
Model
Subject
Model
260
250
200

FIG. 2

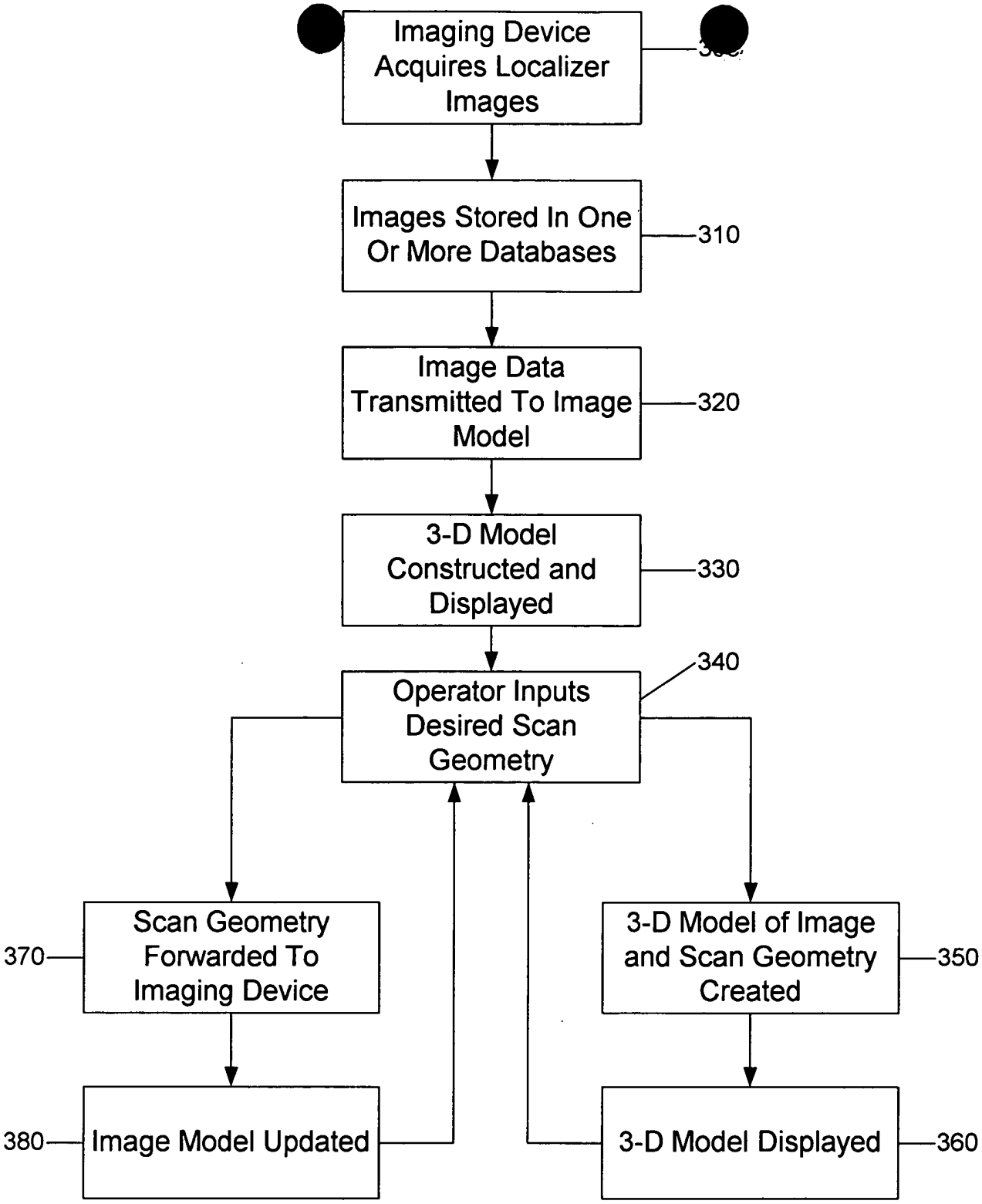

Imaging Device Acquires Localizer Images
Images Stored In One Or More Databases
310
Image Data Transmitted To Image Model
320
3-D Model Constructed and Displayed
330
Operator Inputs Desired Scan Geometry
340
Scan Geometry Forwarded To Imaging Device
370
3-D Model of Image and Scan Geometry Created
350
Image Model Updated
380
3-D Model Displayed
360

FIG. 3

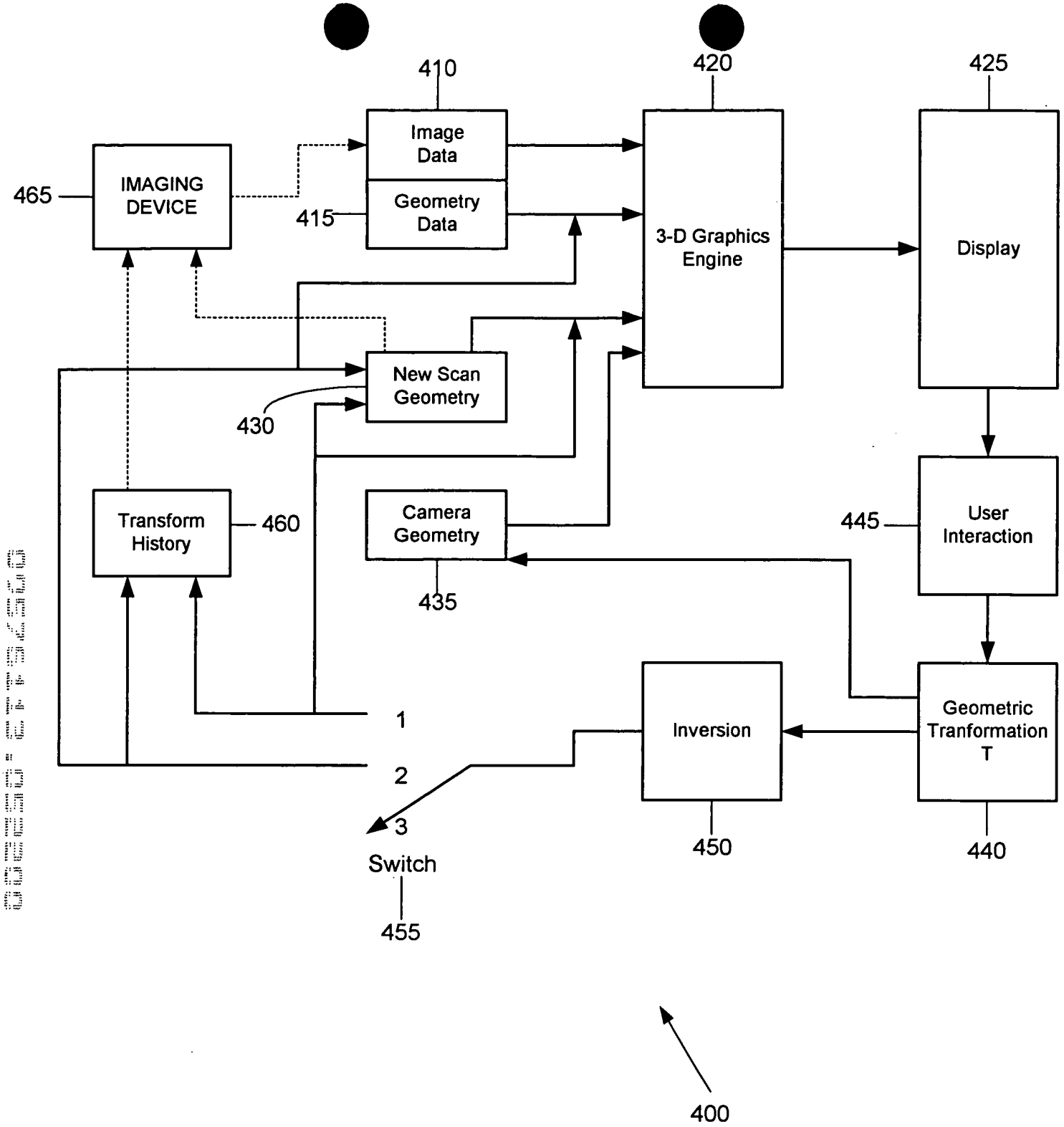
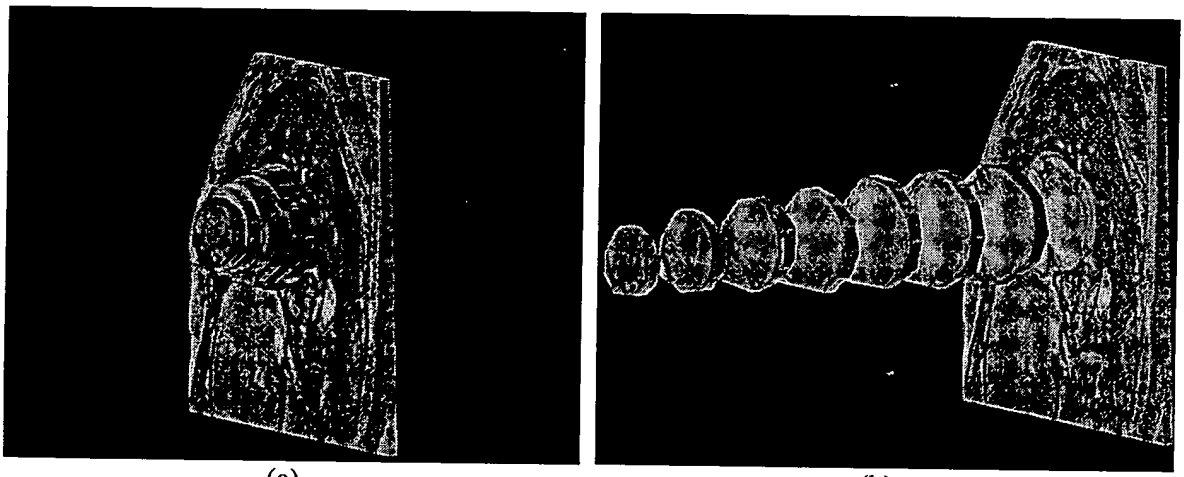

410
420
425
Image Data
Geometry Data
415
IMAGING DEVICE
465
3-D Graphics Engine
Display
New Scan Geometry
430
Transform History
460
Camera Geometry
435
445
User Interaction
Inversion
Geometric Tranformation T
450
440
1
2
3
Switch
455
400

FIG. 4



(a) (b)

FIG. 5

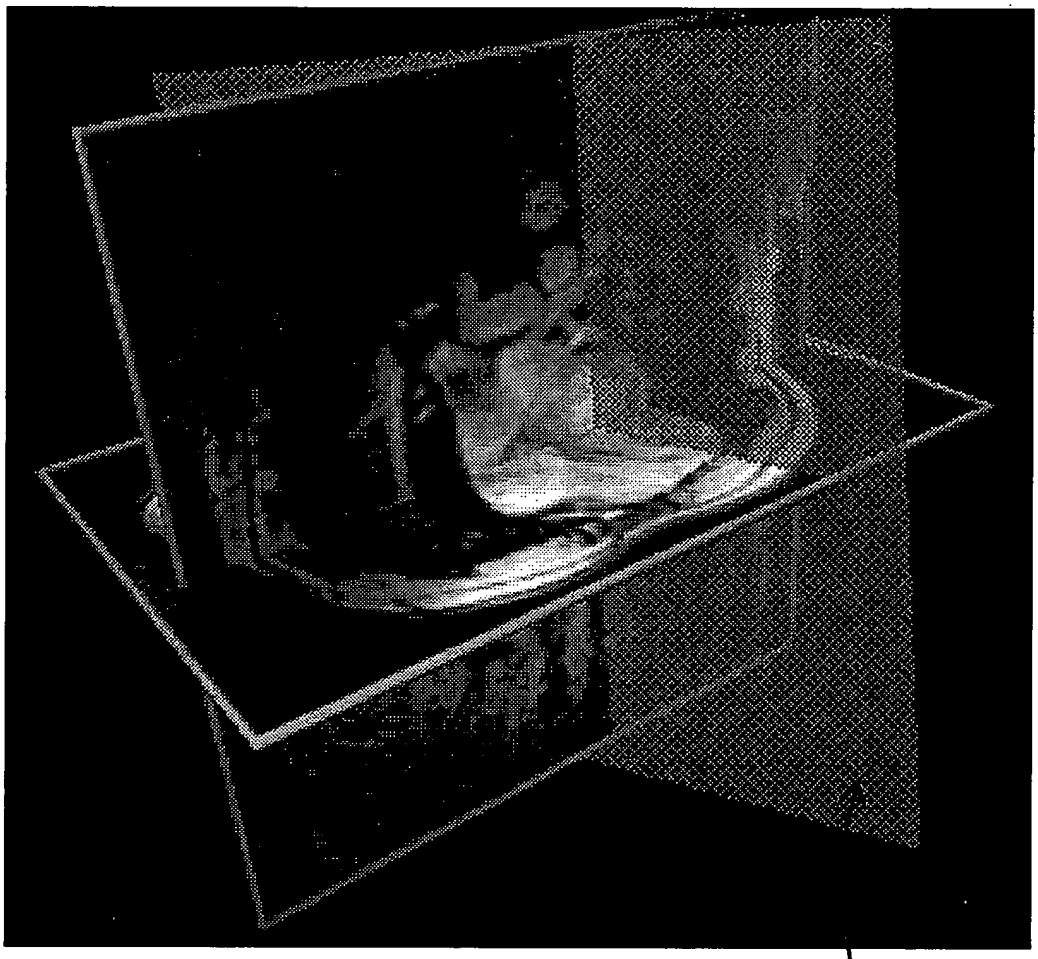


FIG. 6

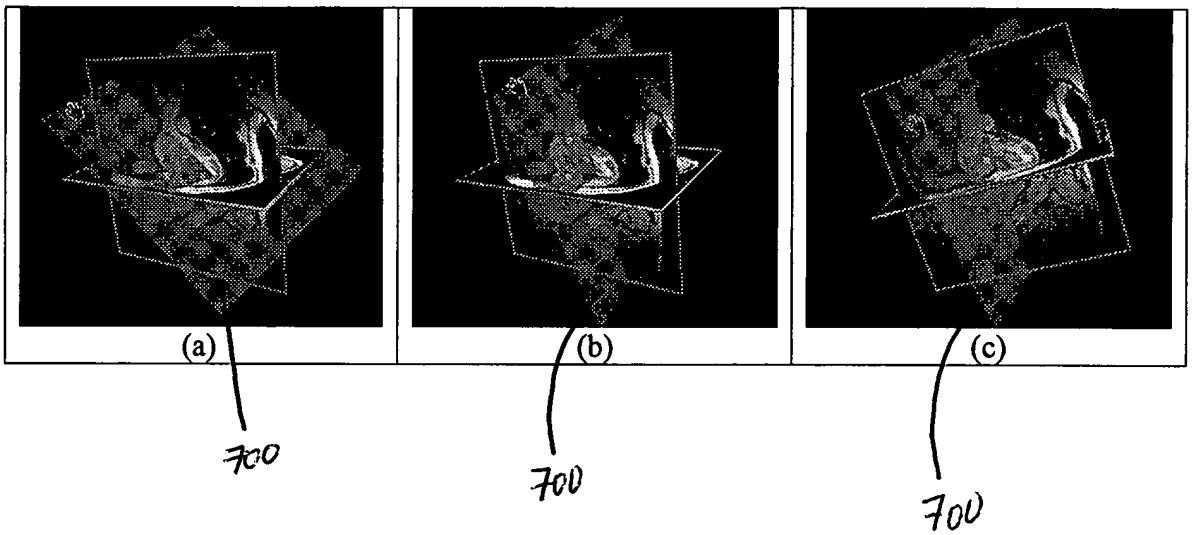


FIG. 7